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APPLICATION NO.	FILING D	DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/909,235	07/19/2001		George F. Ramsay III	AUS920010366US1	8703
7590 08/05/2004				EXAMINER	
Kelly K. Kord	lzik		TUNG, KEE M		
5400 Renaissar			ART UNIT	PAPER NUMBER	
1201 Elm Street Dallas, TX 75270					TALER NOMBER
Dallas, IA /.	0270		•	2676	. 4
				DATE MAILED: 08/05/2004	0

Please find below and/or attached an Office communication concerning this application or proceeding.

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	Application No.	Applicant(s)					
	09/909,235	RAMSAY ET AL.					
Office Action Summary	Examiner	Art Unit					
	Kee M Tung	2676					
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence address					
A SHORTENED STATUTORY PERIOD FOR REPLY THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply if NO period for reply is specified above, the maximum statutory period was reply to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	36(a). In no event, however, may a reply be time within the statutory minimum of thirty (30) days will apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	nely filed s will be considered timely. the mailing date of this communication. D (35 U.S.C. § 133).					
Status							
1) Responsive to communication(s) filed on 20 M	av 2004.						
3) Since this application is in condition for allowar							
Disposition of Claims							
4) ☐ Claim(s) 1-36 is/are pending in the application. 4a) Of the above claim(s) is/are withdraw 5) ☐ Claim(s) is/are allowed. 6) ☐ Claim(s) 1-36 is/are rejected. 7) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) are subject to restriction and/or	vn from consideration.						
Application Papers							
9) The specification is objected to by the Examine							
10)☐ The drawing(s) filed on is/are: a)☐ acce							
Applicant may not request that any objection to the	= , ,	, ' ·					
Replacement drawing sheet(s) including the correct 11) The oath or declaration is objected to by the Ex	• • • • • • • • • • • • • • • • • • • •						
Priority under 35 U.S.C. § 119							
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority documents 2. Certified copies of the priority documents 3. Copies of the certified copies of the prior application from the International Bureau * See the attached detailed Office action for a list	s have been received. s have been received in Application ity documents have been receive I (PCT Rule 17.2(a)).	on No ed in this National Stage					
Attachment(s)	. 🗖						
Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948)	4) Ll Interview Summary Paper No(s)/Mail Da	(PTO-413) ate					
Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date		atent Application (PTO-152)					

Application/Control Number: 09/909,235

Art Unit: 2676

DETAILED ACTION

The response filed 5/20/04 has been considered in preparing this Office action.

Claim Rejections - 35 USC § 103

- 1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 2. Claims 1-36 are rejected under 35 U.S.C. 103(a) as being unpatentable over Rao et al (WO 97/06523 hereinafter "Rao") in view of Kato et al (5,801,705 hereinafter "Kato") and Nishio et al (6,038,034 hereinafter "Nishio").

Rao teaches a method for allocating memory space (Fig. 1 and respective areas of the specification) comprising the steps of allocating said memory space as a plurality of frame buffers (at least two buffers for double buffering or single buffered stereo). It is noted that the more memory allocated to the frame buffers, the less memory is available for the CPU. It is noted that Rao does not teach or suggest allocating four buffers or double buffered stereo. It would have been obvious to one of ordinary skill in the art at the time the present invention was made to allocate quadruple buffers or double buffered stereo in order to provide stereo display for animation. Kato teaches a graphics display unit for implementing multiple frame buffer stereoscopic display, a single buffered stereo (Fig. 1, one buffer per eye) and a double buffered stereo (Fig. 3, double buffers per eye). It would have been obvious to one of ordinary skill in the art at the time the present invention was made to combine the teachings of Kato into Rao in

Application/Control Number: 09/909,235

Art Unit: 2676

order to provide stereo display for animation as taught by Kato (col. 2, lines 35-40 and col. 9, lines 30-35). However, Kato fails to explicitly teach or suggest providing a user with selectable option to allocate said memory space as a double buffered stereo or single buffered stereo. Kato teaches a user can selected to configure in single buffered stereo (Fig. 1) or double buffered stereo (Fig. 3). Nishio teaches a system and method for allocating memory space as a double buffer mode or single buffer mode by a command released from the host computer (col. 6, lines 26-31). It is noted that Nishio does not mentioned the command from the host computer is user selectable option. However, as one of ordinary skill in the art would recognized that in order for the host computer to send a particular command, there must be some predetermined conditions, either by software operation or user operation and a user can always over power or reset the predetermined condition. Therefore, it would have been obvious to one of ordinary skill in the art at the time the present invention was made to that the command sent from the host could be implemented as the claimed user selectable option. It would have been obvious to one of ordinary skill in the art at the time the present invention was made to combine the teachings of Nishio into the combination of Rao and Kato in order to provide the system and method with optional selection for the user to select either single buffered stereo or double buffered stereo as taught by Kato (Figs. 1 and 3; col. 2, lines 35-40 and col. 9, lines 30-35). Therefore, at least claims 1 and 2, 5 would have been obvious.

As per claims 3 and 4, Rao fails to explicitly teach or suggest setting a flat to indicate that the memory is allocated as single or double buffered stereo. However, It

Application/Control Number: 09/909,235

Art Unit: 2676

would have been obvious to one of ordinary skill in the art at the time the present invention was made to implement the teachings of memory allocation of Rao as claimed in order to more efficiently operated and used the memory allocation operation.

Claims 6-10 are similar in scope to claims 1-5, and thus are rejected under similar rationale.

Claims 11-15 are similar in scope to claims 1-5, and additionally required a graphics adapted (inherently or obvious in view of any well know graphics system to include a graphics adapted), and thus are rejected under similar rationale.

Claims 16-22 and 23-29 are also similar in scope to claims 1-5, and thus are rejected under similar rationale.

Claims 30-36 are also similar in scope to claims 11-15, and additionally required to allocated memory space in frame buffer which also would have been obvious in view of UMA of Rao because in UMA, all the memory space can be allocated to the plurality of frame buffers and thus is considered as frame buffer memory and thus are rejected under similar rationale.

Response to Arguments

3. Applicant's arguments with respect to claims 1-36 have been considered but are moot in view of the new ground(s) of rejection.

Conclusion

4. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Kee M Tung whose telephone number is 703-305-9660. The examiner can normally be reached on Tuesday - Friday from 5:30 am - 4:00 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Matthew Bella can be reached on 703-308-6829. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Kee M Tung

Primary Examiner

Art Unit 2678